

4.2.C. 0801020403.

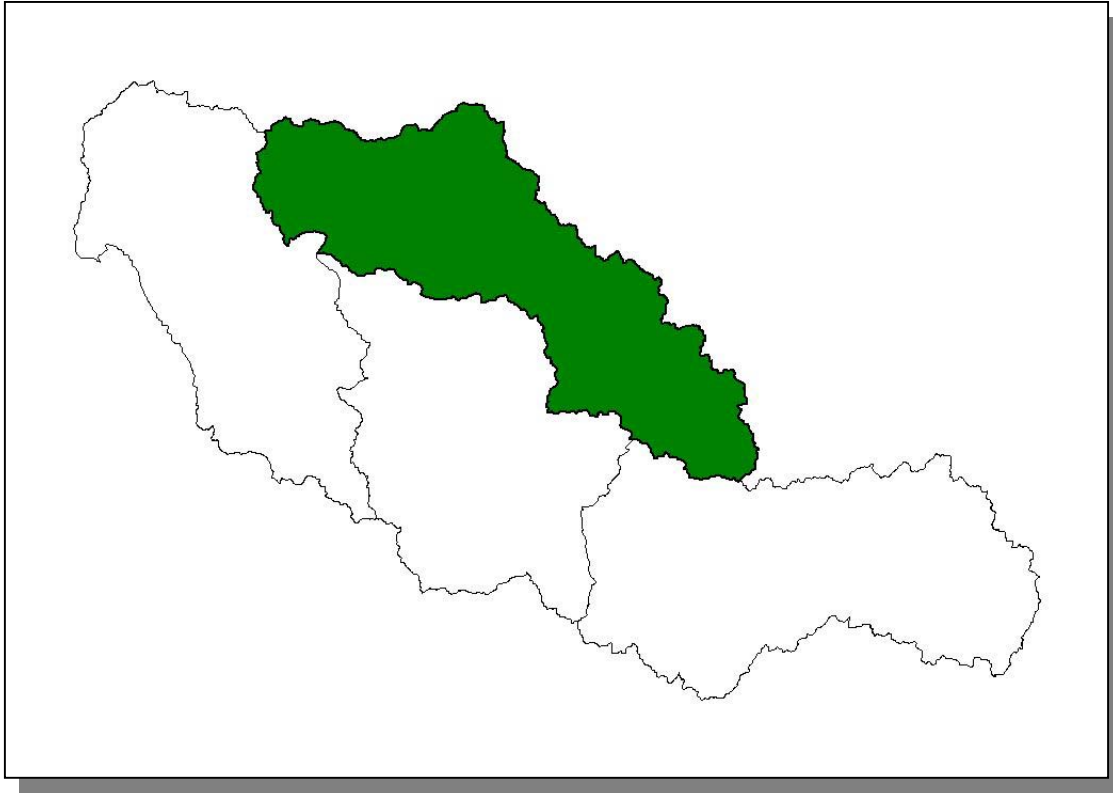


Figure 4-25. Location of Subwatershed 0801020403. All North Fork Forked Deer HUC-10 subwatershed boundaries are shown for reference.

4.2.C.i. General Description.

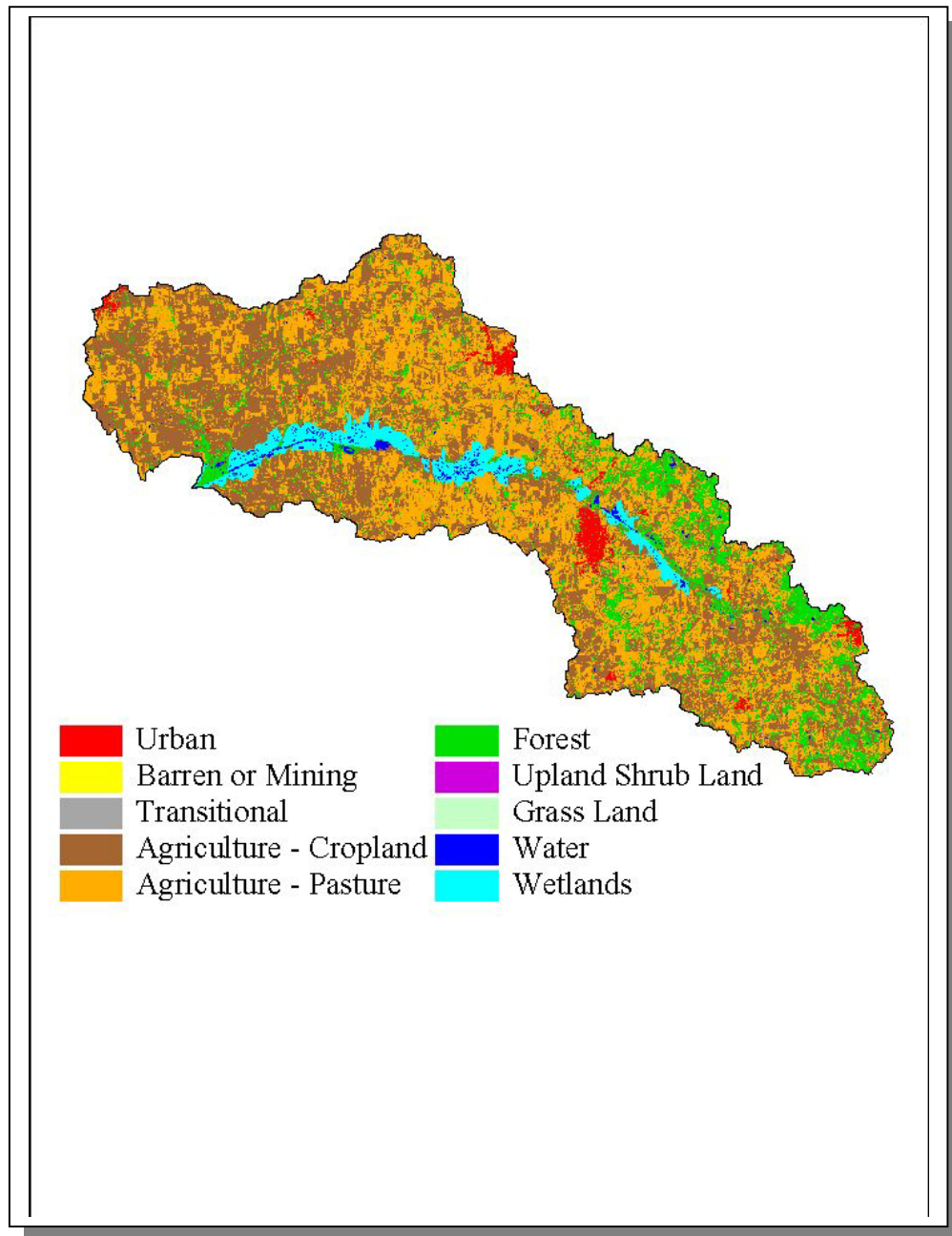


Figure 4-26. Illustration of Land Use Distribution in Subwatershed 0801020403.

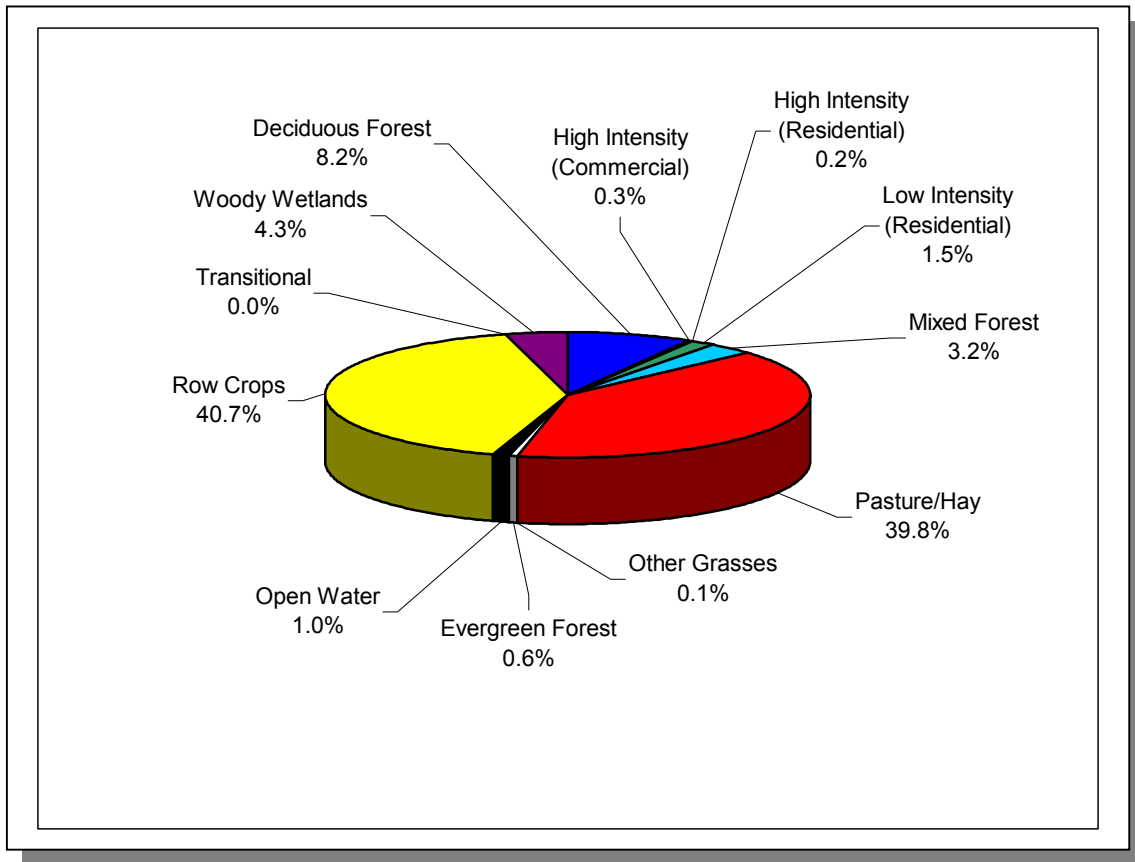


Figure 4-27. Land Use Distribution in Subwatershed 0801020403. More information is provided in NFFD-Appendix IV.

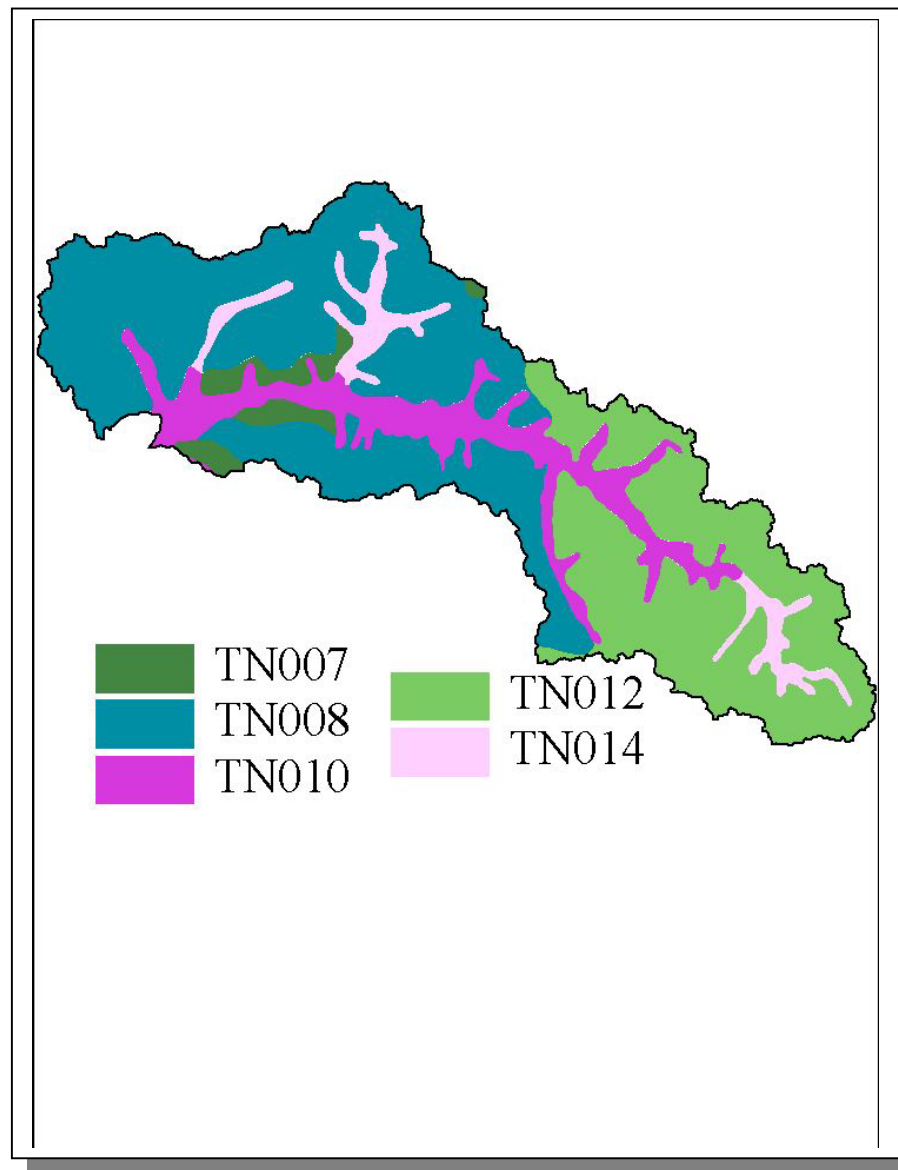


Figure 4-28. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020403.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN007	29.00	C	1.30	5.36	Silty Loam	0.48
TN008	2.00	C	1.38	5.20	Silty Loam	0.48
TN010	81.00	C	1.33	5.11	Silty Loam	0.44
TN012	1.00	C	2.52	5.13	Silty Loam	0.39
TN014	30.00	C	1.30	5.12	Silty Loam	0.47

Table 4-18. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0801020403. More information is provided in NFFD-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		PERCENT CHANGE
	1990	1997 Est.		1990	1997	
Dyer	34,854	36,465	7.39	2,576	2,695	4.6
Gibson	46,315	48,083	33.74	15,625	16,221	3.8
Total	81,169	84,548		18,201	18,916	3.9

Table 4-19. Population Estimates in Subwatershed 0801020403.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Dyer	Gibson	2,190	972	932	40	0
Gibson	Gibson	287	118	110	4	4
Milan	Gibson	7,512	3,300	3,183	110	7
Newbern	Dyer	2,514	1,052	994	58	0
Trenton	Gibson	4,836	2,150	2,073	77	0
Yorkville	Gibson	355	142	7	133	2
Total		17,694	7,734	7,299	422	13

Table 4-20. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0801020403.

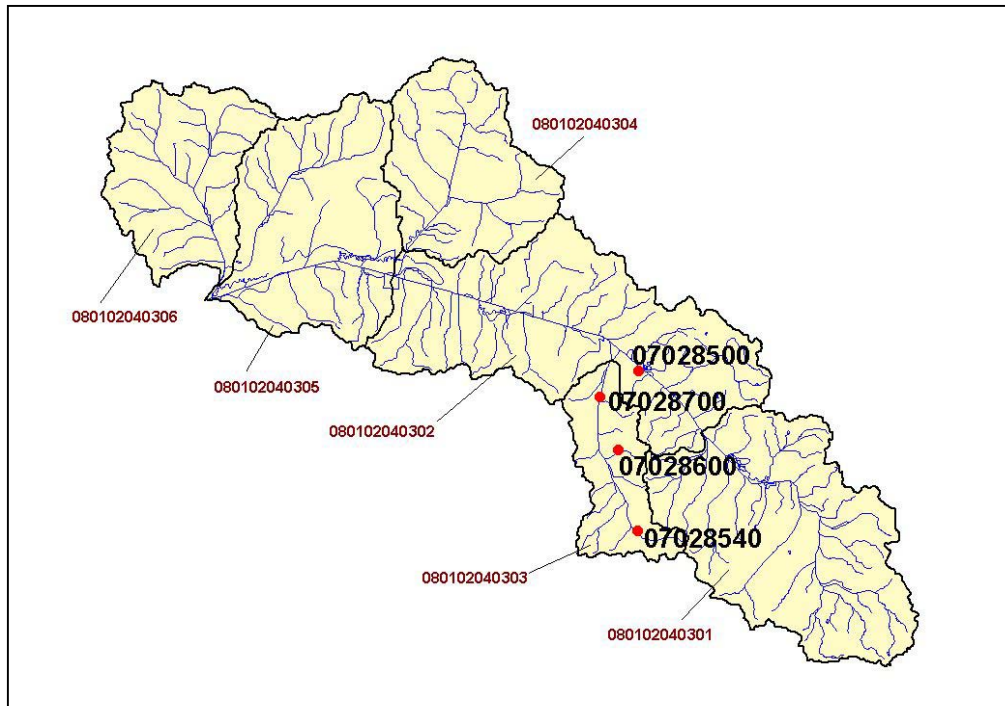


Figure 4-29. Location of Historical Streamflow Data Collection Sites in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

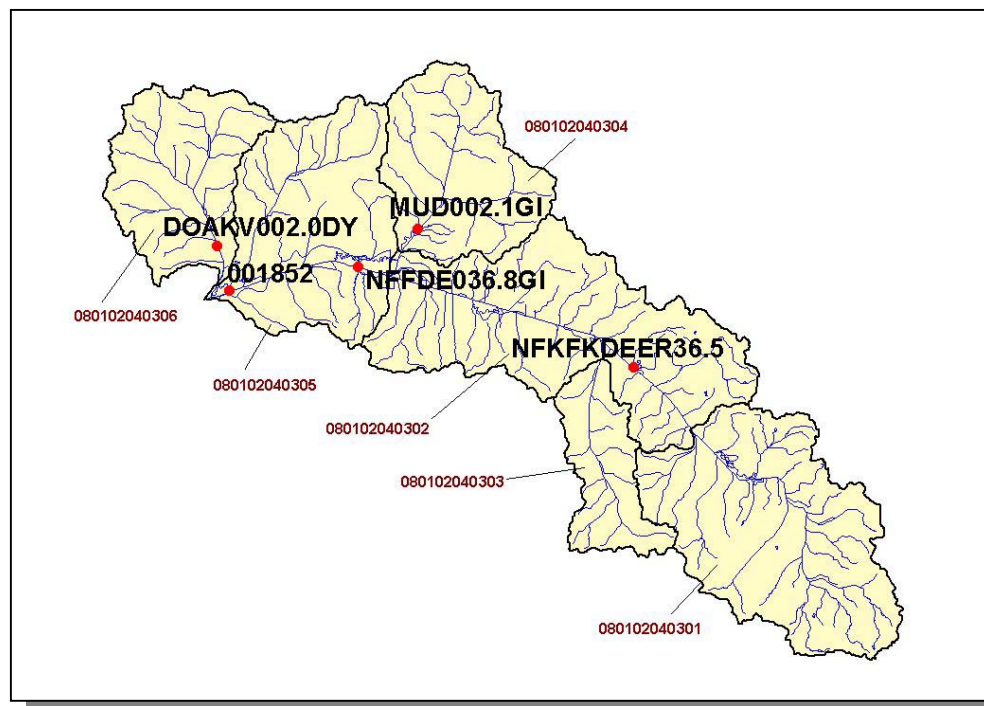


Figure 4-30. Location of STORET Monitoring Sites in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. More information is provided in NFFD-Appendix IV.

4.2.C.ii. Point Source Contributions.

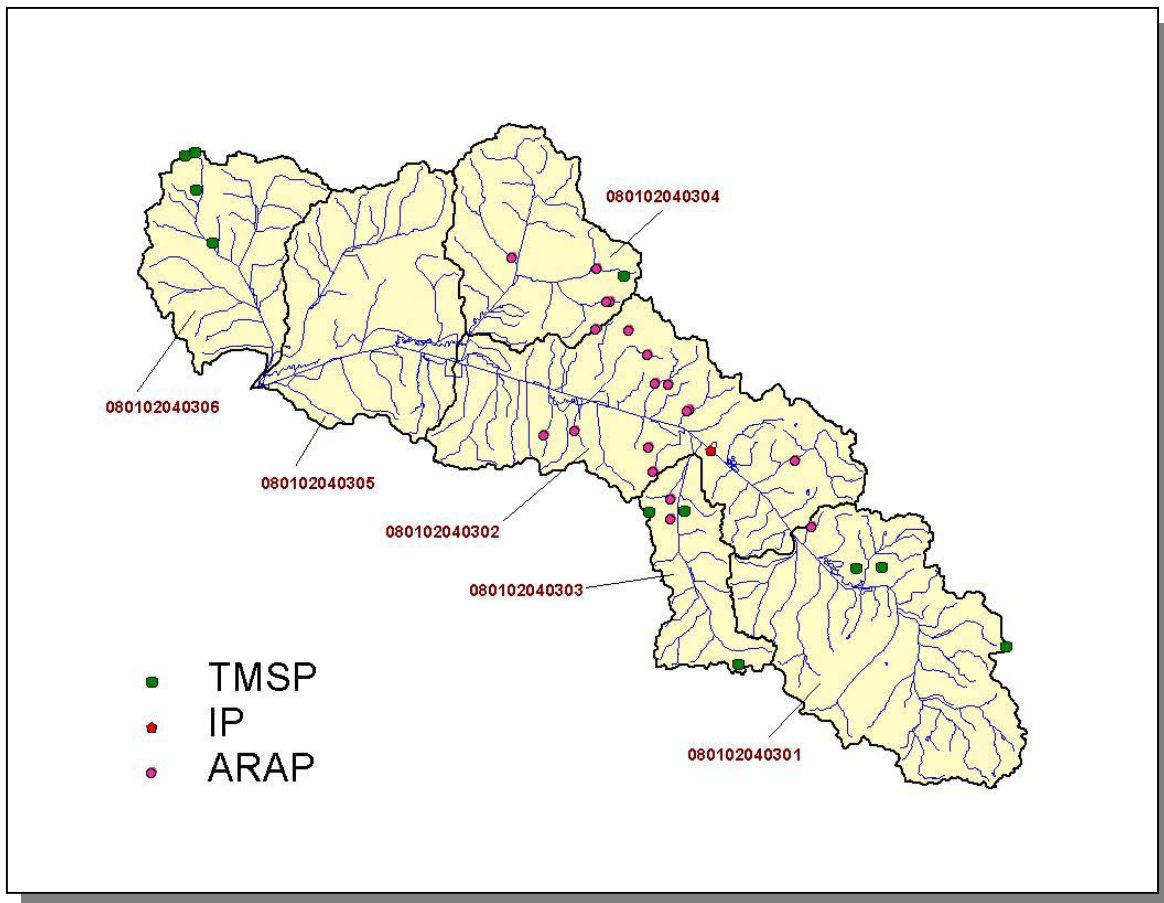


Figure 4-31. Location of Active Point Source Facilities in Subwatershed 0802020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. Tennessee Multi-Sector Permits (TMSP), green squares; Individual Permits, red pentagons; ARAP, magenta circles; Concentrated Animal Feeding Operations (CAFO), brown hexagons; Ready-Mix Concrete Permits (RMCP), turquoise stars; Mining Permits, gray triangles; Water Treatment Permits, Purple crosses. More information is provided in the following figures.

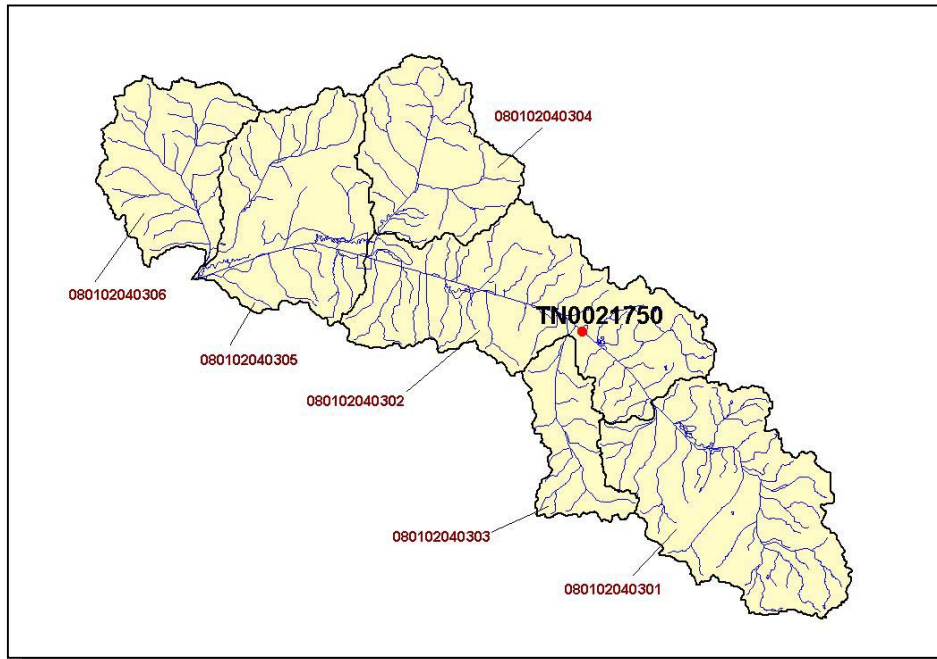


Figure 4-32. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

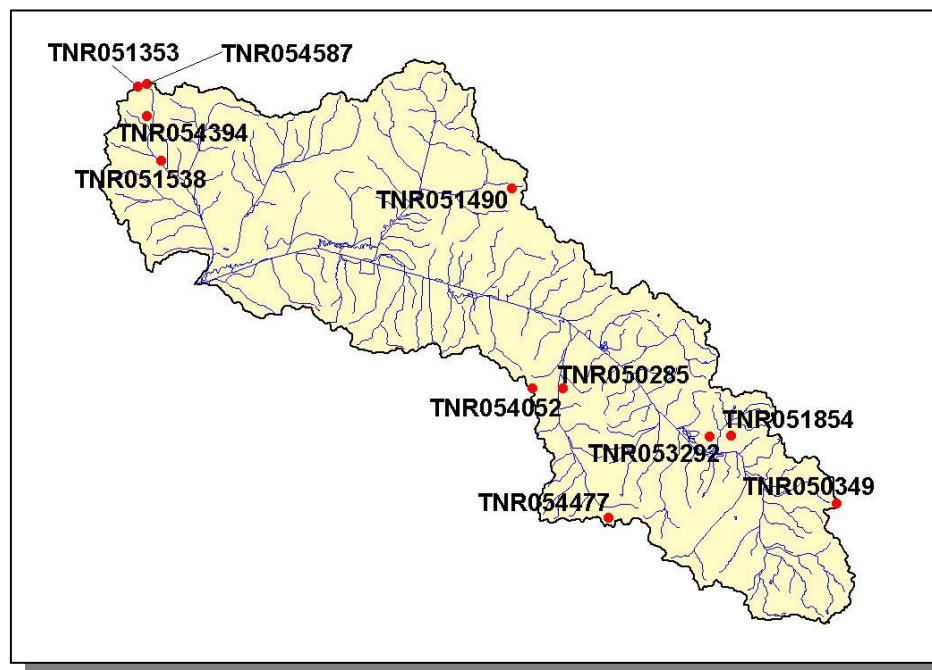


Figure 4-33. Location of TMSP Facilities in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

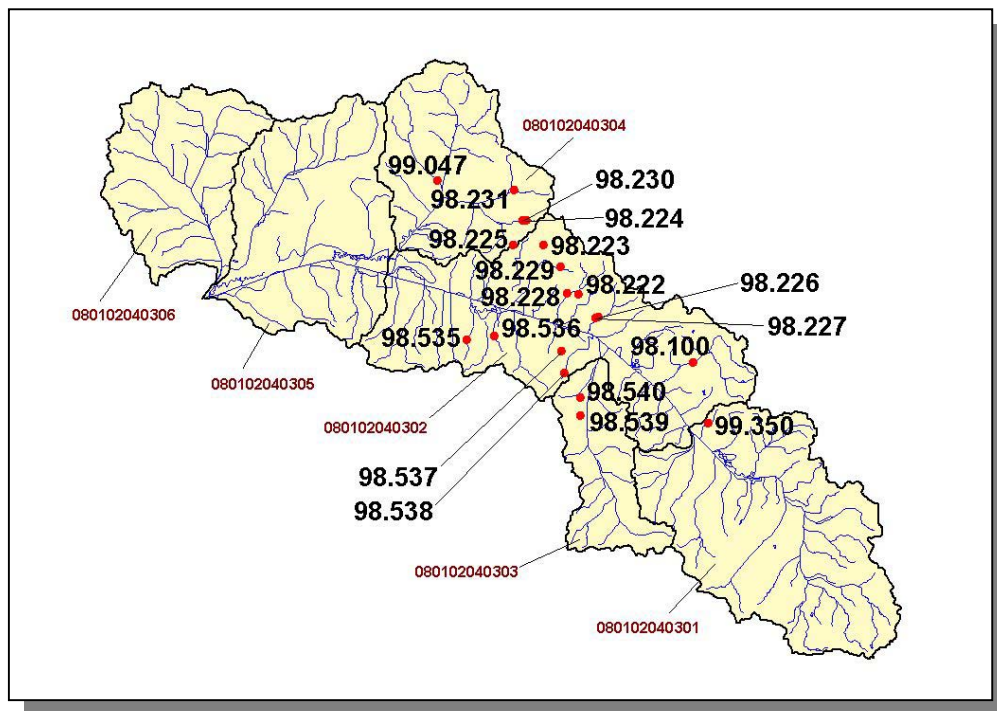


Figure 4-34. Location of ARAP Sites (Individual Permits) in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. More information, including the names of facilities, is provided in NFFD-Appendix IV.

4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There is one NPDES facility discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0801020403:

- TN0021750 (Trenton Lagoon) discharges to North Fork Forked Deer River @ RM 35.9

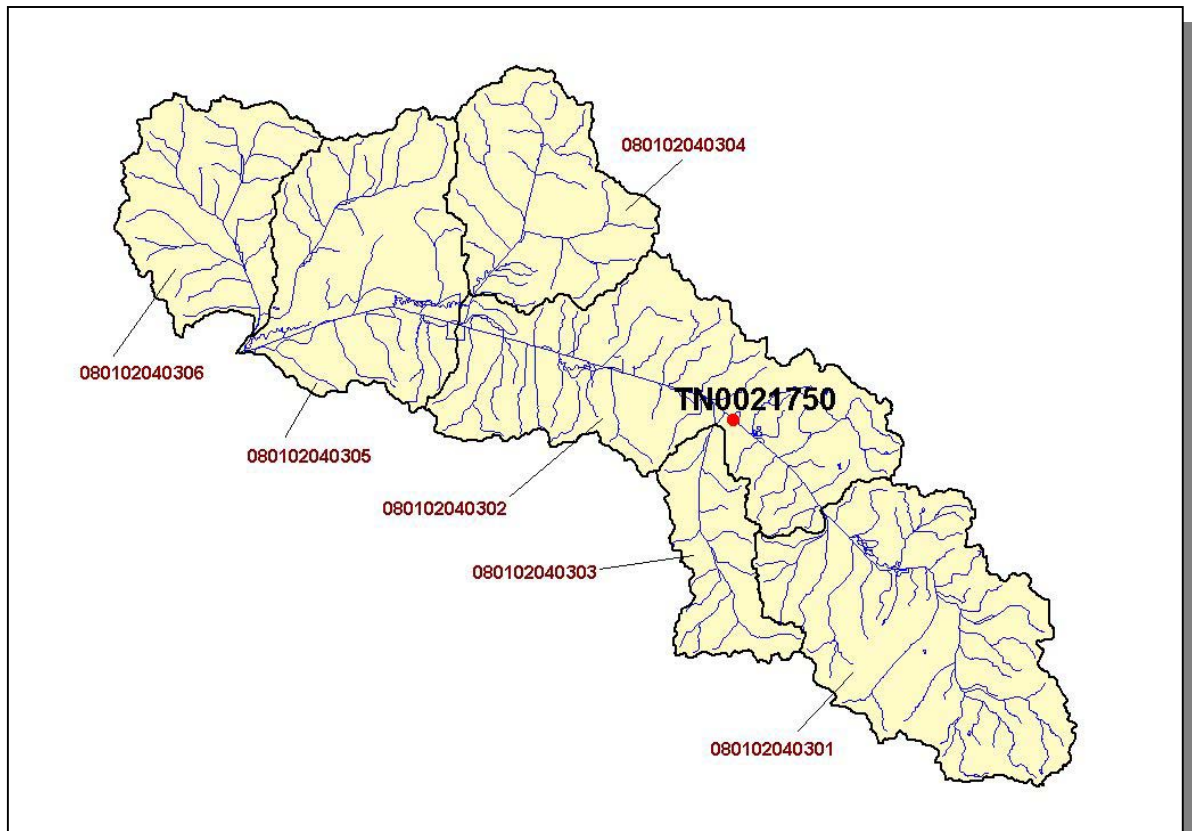


Figure 4-35. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0801020403. Subwatershed 080102040301, 080102040302, 080102040303, 080102040304, 080102040305, and 080102040306 boundaries are shown for reference. The names of facilities are provided in NFFD-Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0021750	4.60	4.69	4.82	4.04	0.75000

Table 4-21. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020403. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD ₅	pH	WET	NH ₃	FECAL	TRC	SETTLEABLE SOLIDS	TSS	DO
TN0021750	X	X	X	X	X	X	X	X	X

Table 4-22. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0801020403. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); WET, Whole Effluent Toxicity; TRC, Total Residual Chlorine; TSS, Total Suspended Solids; DO, Dissolved Oxygen.

4.2.C.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
3,577	9,568	81	9	0	2,939	27

Table 4-23. Summary of Livestock Count Estimates in Subwatershed 0801020403. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Dyer	40.4	40.4	0.8	2.8
Gibson	36.4	36.4	2.0	8.6
Totals	76.8	76.8	2.8	11.4

Table 4-24. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0801020403.

CROPS	TONS/ACRE/YEAR
Grass (Hayland)	0.31
Grass (Pastureland)	0.50
Grass, Forbs, Legumes (Mixed Pasture)	0.80
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Corn (Row Crops)	11.01
Soybeans (Row Crops)	8.10
Sorghum (Row Crops)	6.30
Cotton (Row Crops)	15.28
Wheat (Close Grown Cropland)	3.88
Oats (Close Grown Cropland)	3.34
Conservation Reserve Program Land	0.46
Other Land in Farms	1.34
Farmsteads and Ranch Headquarters	0.50
Other Cropland not Planted	0.70
Nonagricultural Land Use	0.00

Table 4-25. Annual Estimated Total Soil Loss in Subwatershed 0801020403.